

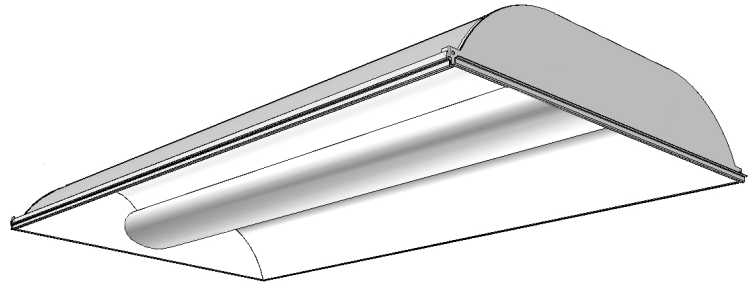
HP90 Recessed Fluorescent **H9S2GLR228 or 128**

Page 1 of 2

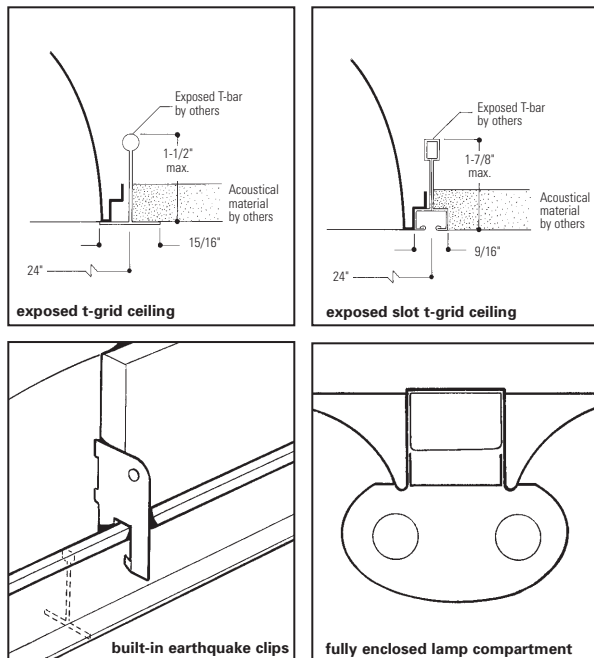
Direct/Indirect – 2' x 4' with Acrylic Linear Prismatic Lens
Static, 1 or 2 Lamp T5

Features

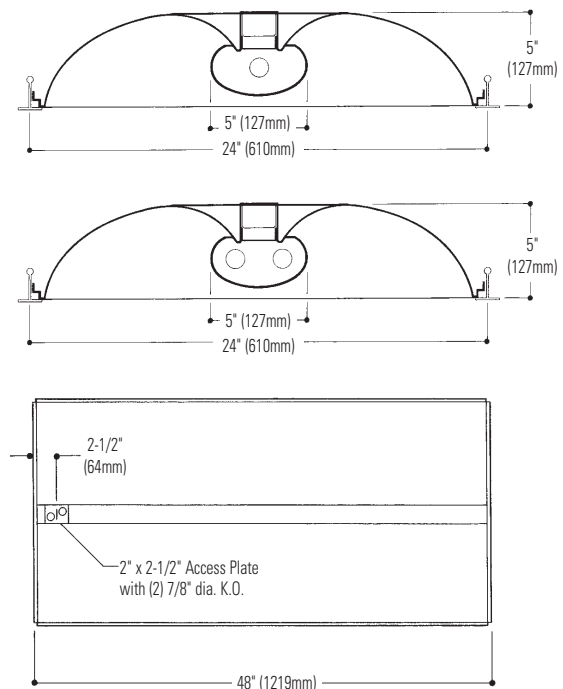
- Can provide 54.6 maintained footcandles of balanced brightness illumination at only .68 watts per square foot.
- 87.2% efficient (1 lamp, 28W).
- 90.4% efficient (2 lamp, 28W).
- Direct/indirect appearance with soft contoured interior.
- Lens encloses lamp compartment.
- Translucent DR acrylic linear prismatic lens.
- Tension screws secure ends to body.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid (T) ceiling types.
- Lamp shield opens from either side.
- 95% reflective specular aluminum reflector.
- Ballast accessible from room side.
- Can be continuous row mounted.
- Wiring access plate standard.
- Optional DALI ballast i GEN TECHNOLOGY accepts digital dimming commands from computers, scene controllers and automatic control devices.
- Construction to meet NYC Code or Chicago Plenum available.



Mounting Methods



Dimensions



Job Information

Type:

Job Name:

Cat. No.:

Lamp(s):

Volts/Ballast:

Lightolier a Genlyte company

www.lightolier.com

Technical Information: (978) 657-7600 • Fax (978) 658-0595

631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710

We reserve the right to change details of design, materials and finish.

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Section 5/Folio M32-10



HP90 Recessed Fluorescent **H9S2GLR228 or 128**

Page 2 of 2

Direct/Indirect – 2' x 4' with Acrylic Linear Prismatic Lens
Static, 1 or 2 Lamp T5

Model No. H9S2GLR128UNVPG

LER = FP - 75.8 IW - 31.55 BF - 1.0
Comparative yearly lighting energy cost per
1000 lumens = \$3.16

Report Number: G2006156
Catalog Number: H9S2GLR128UNVPG
Lamps: F28 T5
Luminaire: HP90 2' x 4' with linear
prismatic lens.
Ballast: QTP 2X28 T5/UNV-PSN
Report is based on 2750 Lumens per lamp.
Efficiency: 87.2%
CIE Type-Direct-Indirect
Plane: 0-Deg 90-Deg
Spacing Criteria: 1.3 1.2
Shielding Angles: 90 90
Plane: 0-Deg 90-Deg
Luminous Length: 47.760 23.760

CANDELA DISTRIBUTION

| | 0.0 | 45.0 | 90.0 | FLUX |
|----|-----|------|------|------|
| 0 | 877 | 877 | 877 | |
| 5 | 868 | 876 | 884 | 84 |
| 15 | 843 | 860 | 868 | 242 |
| 25 | 792 | 794 | 785 | 364 |
| 35 | 713 | 672 | 658 | 424 |
| 45 | 592 | 528 | 536 | 418 |
| 55 | 420 | 386 | 424 | 359 |
| 65 | 239 | 266 | 352 | 280 |
| 75 | 102 | 183 | 254 | 188 |
| 85 | 20 | 31 | 28 | 38 |
| 90 | 2 | 2 | 2 | |

COEFFICIENTS OF UTILIZATION – ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

| RC | 80 | 50 | 30 | 10 | 5 | 0 |
|----|----|----|----|----|----|----|
| RW | 70 | 50 | 30 | 10 | 5 | 0 |
| 1 | 95 | 91 | 87 | 85 | 82 | 80 |
| 2 | 86 | 79 | 73 | 74 | 70 | 66 |
| 3 | 79 | 70 | 62 | 66 | 60 | 55 |
| 4 | 72 | 62 | 54 | 58 | 52 | 47 |
| 5 | 66 | 55 | 47 | 52 | 46 | 41 |
| 6 | 61 | 50 | 42 | 47 | 41 | 36 |
| 7 | 57 | 45 | 38 | 43 | 37 | 32 |
| 8 | 53 | 41 | 34 | 40 | 33 | 29 |
| 9 | 50 | 38 | 31 | 36 | 30 | 26 |
| 10 | 47 | 35 | 28 | 34 | 28 | 23 |

LUMINANCE DATA IN CANDELA/SQ. METER

| AVERAGE IN DEG. | AVERAGE 0-DEG. | AVERAGE 45-DEG. | AVERAGE 90-DEG. |
|--------------------|-------------------|--------------------|--------------------|
| 45 | 1143. | 1020. | 1035. |
| 55 | 1000. | 919. | 1009. |
| 65 | 772. | 859. | 1137. |
| 75 | 538. | 965. | 1340. |
| 85 | 313. | 486. | 439. |

Model No. H9S2GLR228120WA

LER = FP - 84.3 IW - 54.6 BF - 0.93
Comparative yearly lighting energy cost per
1000 lumens = \$2.85

Report Number: G2006010
Catalog Number: H9S2GLR228120WA
Lamps: F28T5
Luminaire: HP90 2' x 4' with linear
prismatic lens.
Ballast: WA
Report is based on 2750 Lumens per lamp.
Efficiency: 90.4%
CIE Type-Direct-Indirect
Plane: 0-Deg 90-Deg
Spacing Criteria: 1.2 1.4
Shielding Angles: 90 90
Plane: 0-Deg 90-Deg
Luminous Length: 46.800 22.800

CANDELA DISTRIBUTION

| | 0.0 | 45.0 | 90.0 | FLUX |
|----|------|------|------|------|
| 0 | 1632 | 1632 | 1632 | |
| 5 | 1621 | 1634 | 1645 | 156 |
| 15 | 1561 | 1598 | 1621 | 451 |
| 25 | 1448 | 1511 | 1568 | 697 |
| 35 | 1278 | 1386 | 1442 | 857 |
| 45 | 1048 | 1169 | 1202 | 886 |
| 55 | 778 | 891 | 941 | 789 |
| 65 | 506 | 642 | 749 | 635 |
| 75 | 250 | 427 | 478 | 412 |
| 85 | 51 | 72 | 60 | 88 |
| 90 | 5 | 5 | 5 | |

COEFFICIENTS OF UTILIZATION – ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

| RC | 80 | 50 | 30 | 10 | 5 | 0 |
|----|----|----|----|----|----|----|
| RW | 70 | 50 | 30 | 10 | 5 | 0 |
| 1 | 98 | 94 | 90 | 88 | 85 | 82 |
| 2 | 89 | 81 | 75 | 76 | 71 | 67 |
| 3 | 81 | 71 | 63 | 67 | 61 | 56 |
| 4 | 74 | 63 | 55 | 59 | 53 | 47 |
| 5 | 68 | 56 | 48 | 53 | 46 | 41 |
| 6 | 63 | 50 | 42 | 48 | 41 | 36 |
| 7 | 58 | 46 | 38 | 43 | 37 | 32 |
| 8 | 54 | 42 | 34 | 40 | 33 | 29 |
| 9 | 50 | 38 | 31 | 37 | 30 | 25 |
| 10 | 47 | 35 | 28 | 34 | 27 | 23 |

ZONAL LUMEN SUMMARY

| ZONE | LUMENS | % LAMP | % FIXT |
|--------|--------|--------|--------|
| 0- 30 | 1305 | 23.7 | 26.2 |
| 0- 40 | 2162 | 39.3 | 43.5 |
| 0- 60 | 3837 | 69.8 | 77.2 |
| 0- 90 | 4972 | 90.4 | 100.0 |
| 90-180 | 0 | 0.0 | 0.0 |
| 0-180 | 4972 | 90.4 | 100.0 |

LUMINANCE DATA IN CANDELA/SQ. METER

| AVERAGE IN DEG. | AVERAGE 0-DEG. | AVERAGE 45-DEG. | AVERAGE 90-DEG. |
|--------------------|-------------------|--------------------|--------------------|
| 45 | 2152. | 2401. | 2468. |
| 55 | 1970. | 2256. | 2382. |
| 65 | 1739. | 2206. | 2574. |
| 75 | 1403. | 2396. | 2682. |
| 85 | 850. | 1200. | 1000. |

Ordering Information

Explanation of Catalog Number. Example: H9S2GLR128120WAGLR

| | | | | | | | | | | |
|---|---------------------------------------|------------------------------|---|--------------------------|--|--|--|---|--|---|
| HP90 Direct/Indirect Recessed | S Body Style: S = Static | 2 Fixture Width | G Ceiling Type: Fits both Standard Grid and Slot Grid | L Acrylic Lens | R Reflector: Specular Aluminum | Lamp Quantity 1=1 Lamp 2=2 Lamp | 28 Lamp: (By Others) 28=15 288W (Nominal 48") | Voltage: 120, 277 or UNV=120-277 | Ballast Type: <20THD <10THD PI † PG †† VY** | Options: Add appropriate suffix to catalog no., ie: (GLR) |
| H9 Standard HP90 | | | | | | | | | | |
| HY For NYC Code – I.B.E.W. Manufactured | | | | | | | | | | |
| HN For NYC Code – Local 3 Manufactured | | | | | | | | | | |

Options/Accessories

Fusing: Internal fast blow fusing: SUFFIX: **GLR**.
Internal slow blow fusing: SUFFIX: **GMF**.

Drywall Kit: Order Catalog Number: **FK92X4**.

Electrical Wiring Options: Consult factory.

For motion or light sensor. See Folio OA20-10.

Specifications

Performance: In an installation of 2 lamp 28W luminaires in a room cavity ratio of 1, with reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .94. To reduce glare the average brightness at 65° shall not exceed 2574 candelas per square meter. To control veiling reflections, luminaire output in the 30°-90° zone shall not be less than 73.8%.

Materials: Chassis parts are die-formed code gauge steel.

Lamp Shield: Linear prismatic translucent DR acrylic lens.

Finish: Chassis exterior – baked white acrylic enamel. Cavity – baked flat white acrylic enamel. Phosphate undercoating. Reflector – low iridescence specular aluminum 95% reflectance.

Specifications (continued)

Electrical: Thermally protected class "P" ballast C.B.M. approved, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°.

UL Listed for damp locations.

Labels: I.B.E.W./UL and ULc Listed.

This product may have a mercury containing lamp. Manage in accord with Disposal Laws. See: www.lamprecycle.org

Job Information

Type:

Lightolier a Genlyte company

www.lightolier.com

Technical Information: (978) 657-7600 • Fax (978) 658-0595

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